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Appendix F
AMENDED DRAWINGS

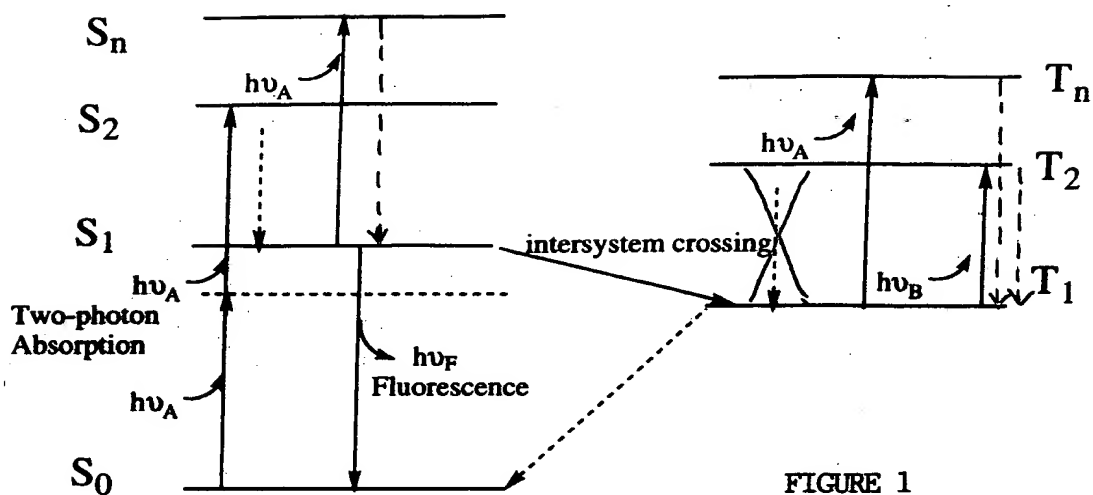


FIGURE 1

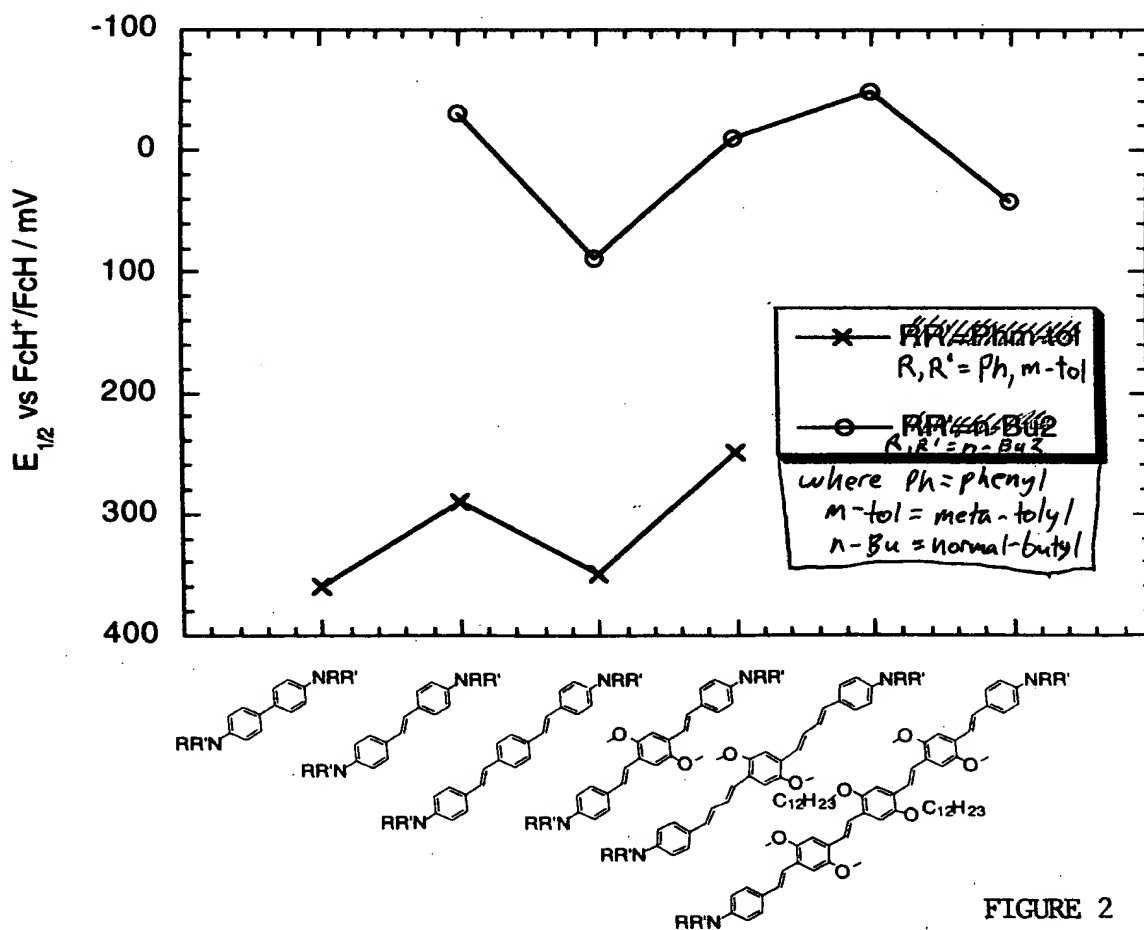


FIGURE 2

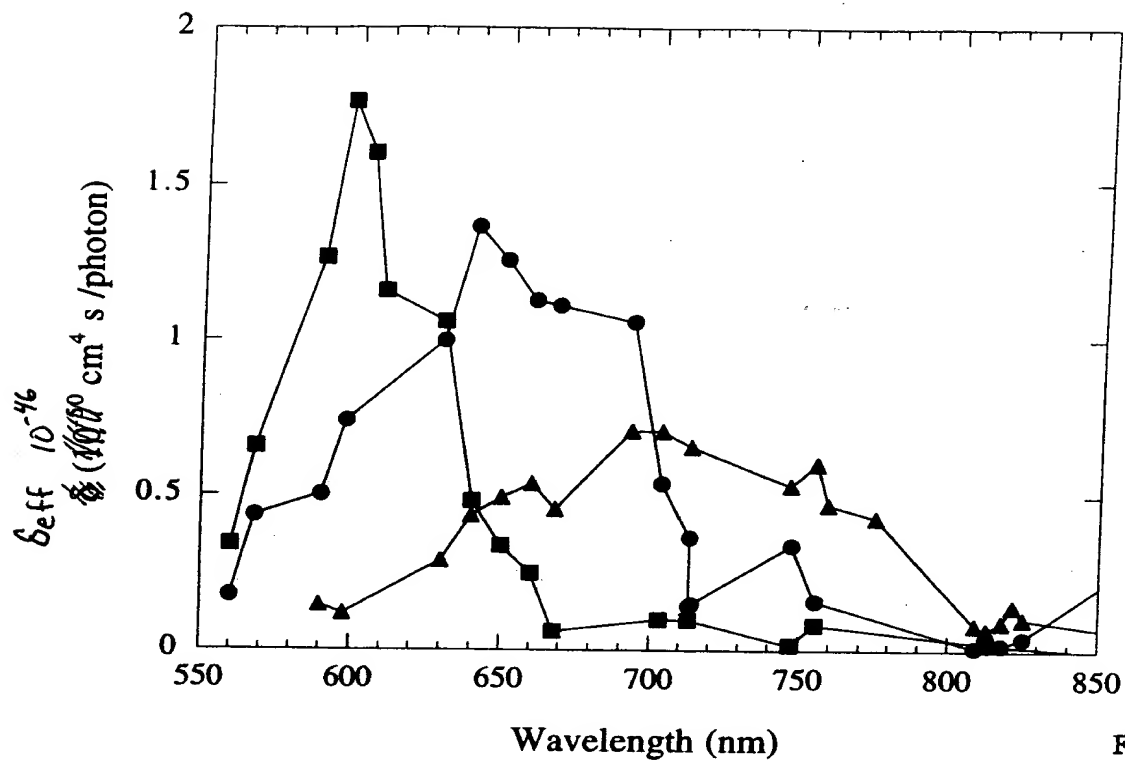


FIGURE 13

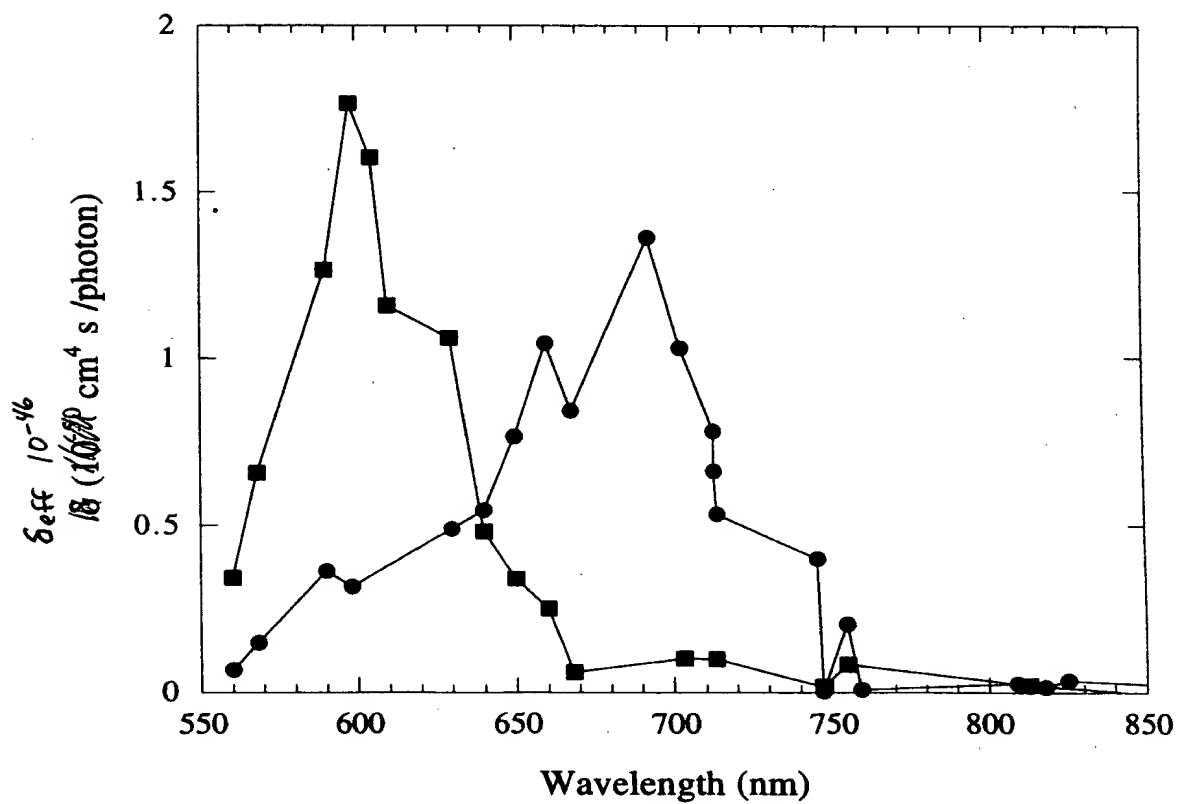
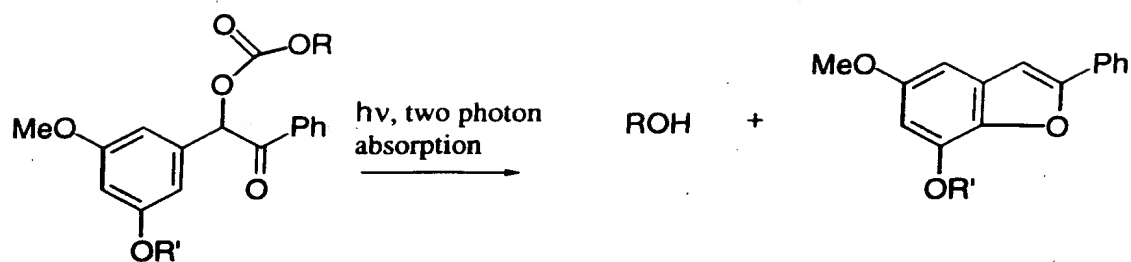
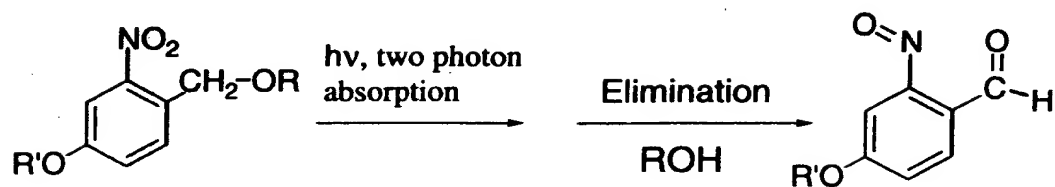


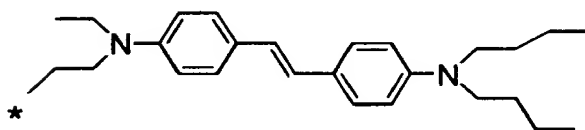
FIGURE 14



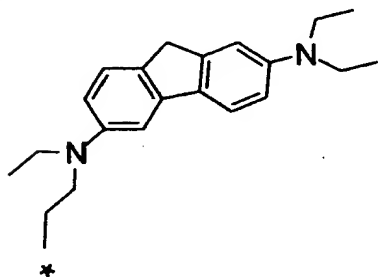
or



$R' =$

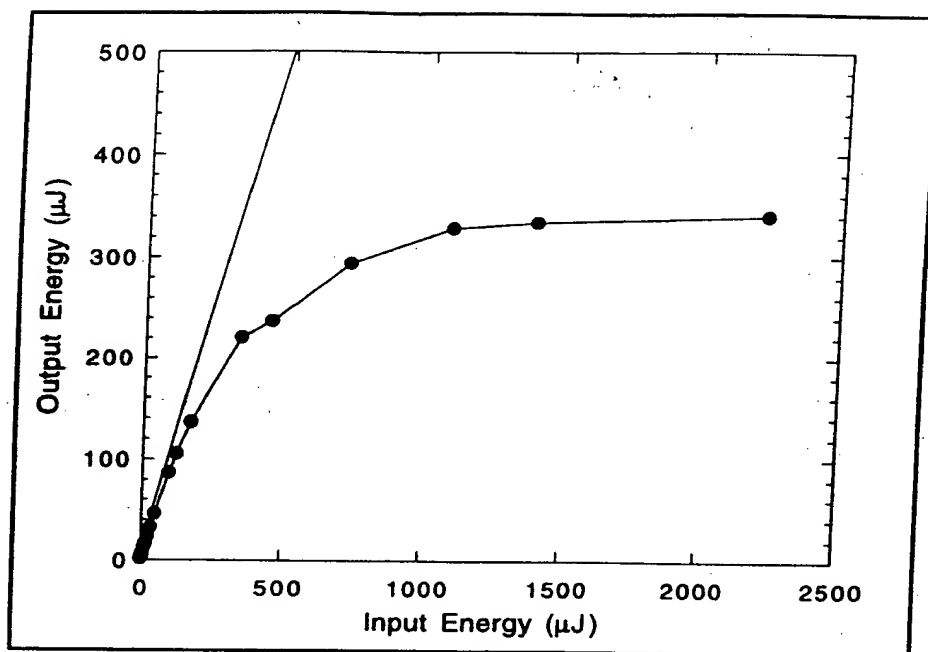


or



where * is the point of attachment.

FIGURE 16



induced excited state
 Optical limiting by two-photon \checkmark absorption in 4-dimethylamino-4'-dibutylaminostilbene (MBDAS) (points). Straight line corresponds to the linear transmission of 96%.

FIGURE 17

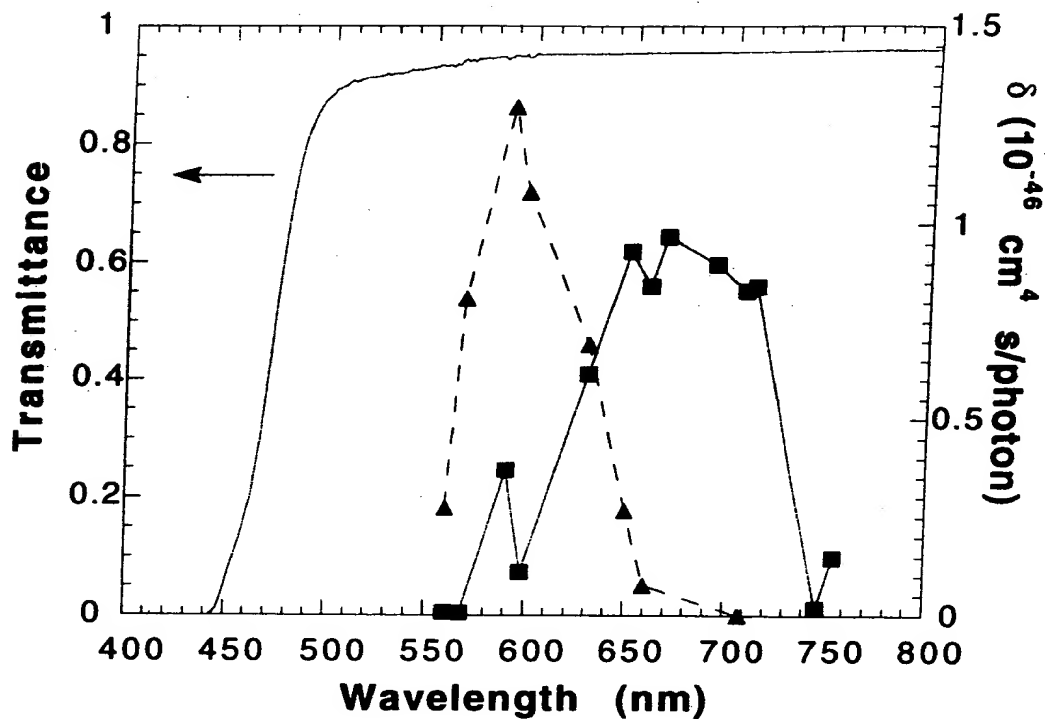
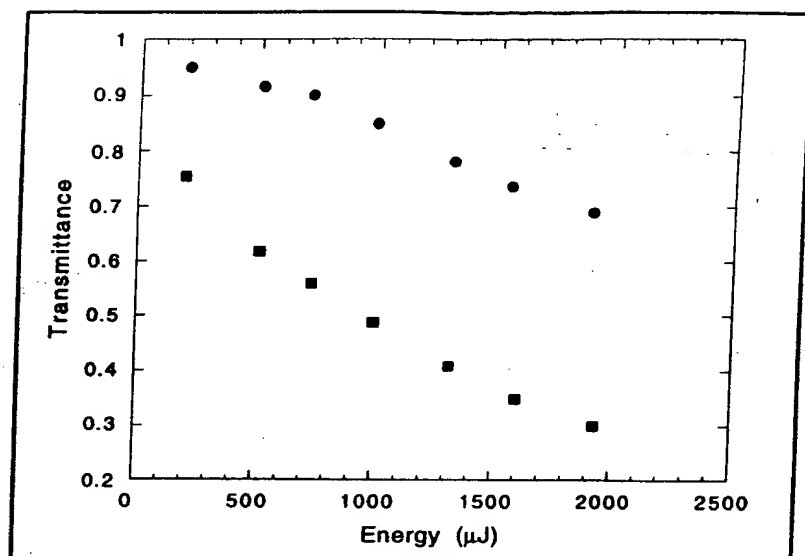


FIGURE 19

Linear transmission spectrum (solid line) of a mixture of 4,4'-bis(dibutylamino)stilbene and 4,4'-bis(diphenylamino)stilbene for a total molecular concentration of 0.1M. Spectra of effective two-photon absorption cross sections for 4,4'-bis(di-n-butylamino)stilbene (triangles) and 4,4'-bis(diphenylamino)stilbene (squares).



Nonlinear transmission data showing enhanced two-photon absorption in a ^{effective} 1-(4-dimethylaminophenyl)-10-(4-dibutylaminophenyl)-deca-1,3,5,7,9-pentane (squares) as compared to the ~~substituted BODAP~~ ^{4,4'-bis(di-n-butylamino)stilbene} (circles). Measurements were performed at 598 nm using 0.01M solutions.

FIGURE 20